

Title (en)

HIGH PERIMETRAL STABILITY GAS BURNER

Title (de)

GASBRENNER MIT HOHER RANDBEREICHSSSTABILITÄT

Title (fr)

BRÛLEUR À GAZ À STABILITÉ PÉRIPHÉRIQUE ÉLEVÉE

Publication

EP 2663807 A2 20131120 (EN)

Application

EP 12705415 A 20120111

Priority

- IT MI20110019 A 20110112
- IB 2012050135 W 20120111

Abstract (en)

[origin: WO2012095799A2] Herein a gas boiler burner (1) is described comprising a diffuser (2), suitable for diffusing premixed fuel gases in a combustion chamber (3), each cross-section of said diffuser (2) having a uniform radius of curvature, in which said diffuser (2) comprises a diffuser central portion (10) and two diffuser longitudinally peripheral portions (5), said two diffuser longitudinally peripheral portions (5) being connected together through said central diffuser portion (10), said central diffuser portion (10) extending longitudinally in a direction perpendicular to the flow of the fuel gases over a length 1 greater than zero and having a cross-section shaped as a circumference arc having a radius r, each of said diffuser longitudinally peripheral portions (5) being shaped as a portion of sphere having radius r.

IPC 8 full level

F23D 14/14 (2006.01); **F23D 14/58** (2006.01); **F23D 14/74** (2006.01)

CPC (source: EP KR US)

F23D 14/14 (2013.01 - KR); **F23D 14/145** (2013.01 - EP KR US); **F23D 14/58** (2013.01 - EP KR US); **F23D 14/74** (2013.01 - EP KR US); **F23D 2203/1017** (2013.01 - EP KR US); **F23D 2203/103** (2013.01 - EP KR US); **F23D 2203/105** (2013.01 - EP KR US); **F23D 2203/106** (2013.01 - EP KR US); **F23D 2209/20** (2013.01 - EP KR US); **F23D 2212/103** (2013.01 - EP KR US); **F23D 2212/203** (2013.01 - EP KR US); **F23M 2900/13002** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2012095799A2

Cited by

WO2019011741A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012095799 A2 20120719; **WO 2012095799 A3 20121129**; CN 103429959 A 20131204; CN 103429959 B 20150930; EP 2663807 A2 20131120; EP 2663807 B1 20170405; IT 1406865 B1 20140314; IT MI20110019 A1 20120713; KR 101965676 B1 20190404; KR 20140051818 A 20140502; RU 2013137417 A 20150220; RU 2585669 C2 20160610; UA 112538 C2 20160926; US 2014011143 A1 20140109

DOCDB simple family (application)

IB 2012050135 W 20120111; CN 201280012925 A 20120111; EP 12705415 A 20120111; IT MI20110019 A 20110112; KR 20137020786 A 20120111; RU 2013137417 A 20120111; UA A201308788 A 20120111; US 201213979194 A 20120111